CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KRIDL/CEMENT/2014-15

Date: 04.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager**, KRIDL, Bangalore.
NAME OF THE WORK	:	Providing CC Road behind Government School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KG/WO/608/2014-15 Dated: 02.08.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.50 %	-

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
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Job No.: CTCE/BBMP/W.No.08/KRIDL/SAND/2014-15 : 04.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Providing CC Road behind Government School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KG/WO/608/2014-15 Dated: 02.08.2014

Date of Testing : 04.08.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	95	4.75	4.75	95.3	90-100
2.36	223	11.15	15.90	84.1	75-100
1.18	508	25.40	41.30	58.7	55-90
600 Micron	436	21.80	63.10	36.9	35-59
300 Micron	485	24.25	87.35	12.7	8-30
150 Micron	208	10.40	97.75	2.3	0-10

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Job No.: CTCE/BBMP/W.No.08/KRIDL/AGG/2014-15 : 04.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Providing CC Road behind Government School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KG/WO/608/2014-15 Dated: 02.08.2014

Date of Testing : 04.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1015	3.90	3.90	96.10	95-100
20	15840	60.92	64.83	35.17	30-70
10	6135	23.60	88.42	11.58	10-35
4.75	2480	9.54	97.96	2.04	0-5

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Job No.: CTCE/BBMP/W.No.08/KRIDL/STEEL/2014-15 04.08.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager**, KRIDL, Bangalore.
Name of the work	:	Providing CC Road behind Government School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/KG/WO/608/2014-15 Dated: 02.08.2014
Date of Test	:	04.08.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	550	13.15	O.K	O.K

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CUBE/2014-15

25.09.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Providing CC Road behind Government School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KG/WO/608/2014-15 Dated: 02.08.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.08.2014	25.09.2014	8.152	490.5	21.80
2	28.08.2014	25.09.2014	8.236	506.3	22.50
3	28.08.2014	25.09.2014	8.374	521.7	23.19

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Job No.: CTCE/BBMP/W.No.08/KRIDL/CUBE/2014-15 22.09.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Providing CC Road behind Government School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KG/WO/608/2014-15 Dated: 02.08.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.08.2014	22.09.2014	8.097	475.9	21.15
2	25.08.2014	22.09.2014	8.158	502.2	22.32
3	25.08.2014	22.09.2014	8.278	512.6	22.78

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2014	23.09.2014	8.410	510.6	22.69
2	26.08.2014	23.09.2014	8.360	478.6	21.27
3	26.08.2014	23.09.2014	8.252	474.5	21.09

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